KVM SWITCH

USER'S MANUAL

VERSION : KVM481-003

Introduction

The USB KVM Switch offers the possibility of sharing keyboard, mouse and monitor between two ~ four computers, true USB interface to support its driver-free and plug-n-play features, which allow users to easily install and use the KVM Switch.

Dual monitor VGA / DVI display connections are supported. The DVI interface technology is tailored to modem digital Flat Panel Display, it implements genuinely digital signal transmission over the cable to reduce undesired distortion from conventional analog/digital conversion.

Robust and reliable with metal casing, suitable for use in environments pervasive with electromagnetic interference and wherever a sturdy protective metal case is needed.

Features

- Dual display monitor/TFT-LCD connection - VGA/DVI.
- USB mouse & keyboard interface supported.
- Supports stereo audio sound.
- Direct channel selection, operation and keyboard hotkeys.
- Supports Windows 98SE/ME/2000/XP/Vista, Linux, Mac OS.
- Hot Plug - add or remove connected PCs for maintenance without powering down the KVM switch or PCs.
- No software required.
- Auto Scan function for monitoring PC operation.
- LED display for monitoring port status.
- Buzzer sound for switching port confirmation while use keyboard hotkeys
- Heavy metal casing for best shielding and protection.

Technical Specifications :

Functions	USB KVM Switch 2-port	USB KVM Switch 4-port
Console connection	1	1
PC connections	Max. 2	Max. 4
LED	2	4
Console port connector (all female type)	2x USB A-type on front of switch (for Mouse /Keyboard) 1x DVI (18+1) Single Link (Digital only) 1x VGA HDB15 (Analog only) 1x 3.5 mm Audio jack (Speaker) 1x 3.5 mm Audio jack (Microphone)	2x USB A-type on front of switch (for Mouse /Keyboard) 1x DVI (18+1) Single Link (Digital only) 1x VGA HDB15 (Analog only) 1x 3.5 mm Audio jack (Speaker) 1x 3.5 mm Audio jack (Microphone)
PC port connector (all female type)	2 x USB B-type 2 x DVI (18+1) Single link (Digital only) 2 x VGA HDB 15 (Analog only) 2 x 3.5mm Audio jack (Speaker) 2 x 3.5mm Audio jack (Microphone)	4 x USB B-type 4 x DVI (18+1) Single link (Digital only) 4 x VGA HDB 15 (Analog only) 4 x 3.5mm Audio jack (Speaker) 4 x 3.5mm Audio jack (Microphone)
PC Port Cables	2x VGA HDB15 Male to Female cables 2x DVI-D 18+1 Single Link Male to Male cables 2x USB A-B cables (included in package) 2x 3.5mm Audio Male to Male cables	4x VGA HDB15 Male to Female cables 4x DVI-D 18+1 Single Link Male to Male cables 4x USB A-B cables (included in package) 4x 3.5mm Audio Male to Male cables
Dimension (mm)	L:201.3 W:75 H:43.2	L:331.3 W:135 H:43.2
PC selection	Keyboard hotkeys / push buttons of KVM Switch	
Scan Intervals	5,10,15,20,25,30,35,40,60 sec.	
Keyboard Emulation	USB	
Mouse Emulation	USB	
VGA Resolution	Up to 2048 x 1536	
DVI Resolution	Up to 1920 x 1200	

Daisy Chain and Levels	No
On Screen Display	No
Power Type	Bus-powered or DC 5V
Housing	Heavy metal casing
Operating Temperature	0 to 40°C
Storage Temperature	-20 to 60°C
Humidity	0 to 90% RH, non-condensing

Package Contents

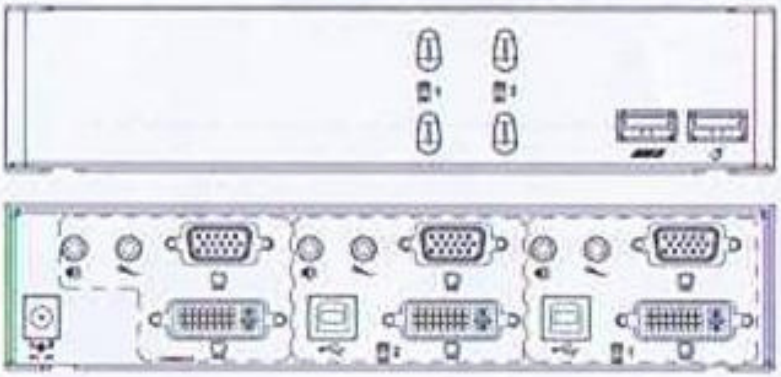
USB KVM Switch 2-port		USB KVM Switch 4-port	
USB KVM Switch	1 pc	USB KVM Switch	1 pc
USB1.1v A-B Cable	2 pcs	USB1.1v A-B Cable	4 pcs
User's manual	1 pc	User's manual	1 pc

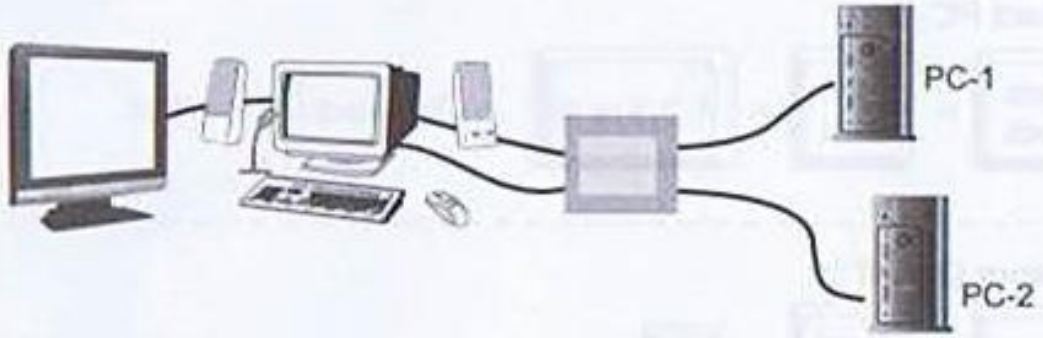
System Requirements :

Functions	USB KVM Switch 2-port	USB KVM Switch 4-port
Console side	1x USB Keyboard 1x USB Mouse 1x VGA, 1 x DVI Monitor 1x Microphone w/3.5mm jack 1x Speaker 2.0 set w/3.5mm jack	1x USB Keyboard 1x USB mouse 1x VGA, 1 x DVI Monitor 1x Microphone 3.5mm jack 1x Speaker 2.0 set w/3.5mm jack

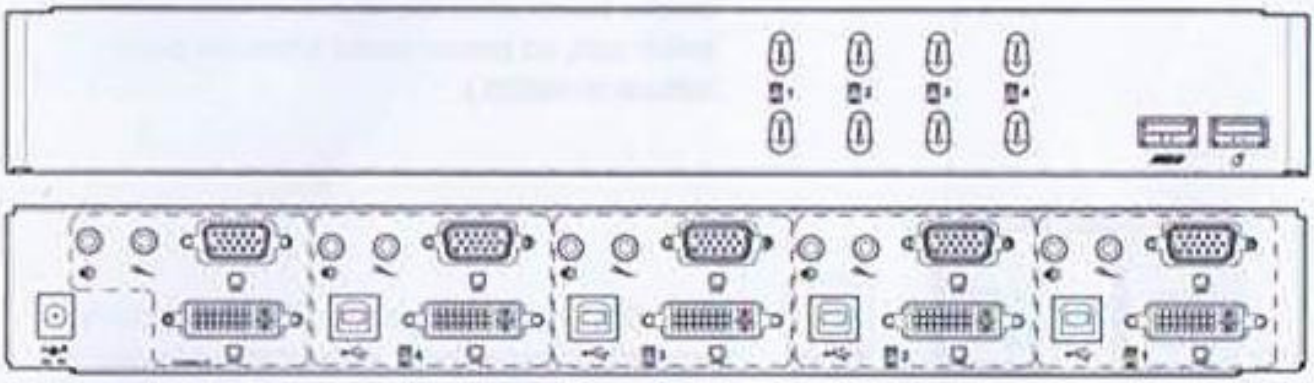
Product Details :

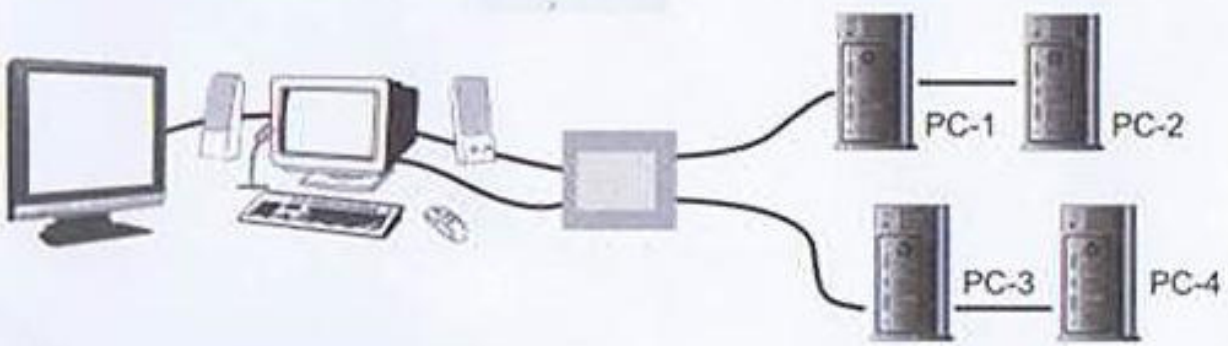
2-port USB KVM Switch :





4-port USB KVM Switch :





Hardware Installation

Please read this important installation information:

Never mix DVI with VGA. If the input connections are VGA, the output must be VGA, and vice versa. KVM will not display if inputs/output are mixed.

Boot your systems one at a time, and during the boot up, make sure that you are monitoring the LEDs on the face of the KVM unit. If you notice that the LED switches to the other channel, then press the channel button under the correct boot channel.
Example: If you are booting 2, and it switches to 1, press the button under 2.
Keep monitoring the KVM unit until the systems are done with their boot up sequence.

Windows 98/98SE user:
When you apply Windows 98SE to USB KVM Switch, please use the following set up procedures:

1st Step:
1. Connecting USB cable type-A connector to PC USB port.
2. Connecting VGA HDB15 pin Male to Female cable to PC; connecting DVI-D (18+1key) Male to Male cable to PC.
3. VGA / DVI monitor's cables are connected to USB KVM Switch's console VGA / DVI port.
4. Connecting the enclosed USB A-B cable type-A to USB port of PC, type-B to PC port on rear side of USB KVM Switch.
5. It will install USB HID (Human Interface Device) driver. Using Keyboard Tab key, Left Arrow key, Right Arrow key and Enter key to accomplish set up process.
6. To switch to the next PC port of USB KVM switch
7. Repeat item 5 procedure to all of PCs.

2nd Step:

1. Connecting USB keyboard and USB mouse to USB KVM Switch's console USB port (on front of switch.)

Windows ME/XP/NT/2000 user:

When you apply Windows ME/XP/NT/2000 to the USB KVM Switch, please use the following set up procedure:

1. Connecting the enclosed USB A-B cable type-A to USB port of PC, type-B to PC port on rear side of USB KVM Switch

2. Connecting VGA HDB15 pin Male to Female cable to PC; connecting DVI-D (18+1key) Male to Male cable to PC.

3. VGA / DVI monitor cables are connected to VGA / DVI port of USB KVM Switch.

4. Connecting USB keyboard to USB KVM Switch's USB port (on front panel).

5. Connecting USB mouse to USB KVM Switch's USB port (on front panel)

Hot Key Definition :

To send commands to the USB KVM Switch, the **NumLock** key must be pressed twice within 2 seconds. If you have not pressed any key in hot key mode within 2 seconds, the keyboard will back to under Operating System control state. **Note : " ++ " means press key within 2 seconds.**

within 2 seconds

Num Lock + Num Lock + ↑ = Switch to Previous Channel

Num Lock + Num Lock + ↓ = Switch to Next Channel

Select PC port :

Num Lock + Num Lock + 1,2,3 or 4 = To select PC1 ~ PC4

Beeper On/Off :

Num Lock + Num Lock + B = Beeper On/Off (Audible feedback when beeper is On and keep the device in silent mode when beeper is Off, factory default is On.) (only beeper sound when use keyboard hotkeys to switch port, no beeper sound when use push buttons on switch.).

Auto Scan Mode :

Num Lock + Num Lock + S = Auto Scan every 10 seconds. ("ESC" switches to regular key code), (Note: Auto Scan mode only works with at least two PCs powered on simultaneously)

Set Auto Scan Rate :

= Set auto scan rate("ESC" switch to regular key code), (each represents 5 seconds' interval latency to 60 seconds correspondingly.

Digital Number	1: 5 secs	2: 10 secs	3: 15 secs	4: 20 secs	5: 25 secs
	6: 30 secs	7: 35 secs	8: 40 secs	9: 60 secs	

Usage

Normally, there is one LED is always lit (i.e. the switch is connected to this PC port) for one PC port and the other PC port's LED is off, when you power on KVM switch.
When you select one of two PCs, one LED will shut down and the selected port LED is flashing.

Troubleshooting

Ensure that all cables are well seated. Label all of cables with the number for each respective computer to avoid confusion.

1. The USB KVM Switch draws the power from USB port of computers. If the computers such as desktop computer, laptop computer or the other computers can not support enough power to the USB KVM switch, please add a DC5V, 1Amp to the power jack (on rear side of USB KVM switch).

2. Don't press any keys on the keyboard while the selected computer is booting up. Otherwise, it might cause the keyboard error or keyboard is not detected at PC side.
3. If the computer boots up fine and keyboard doesn't work, then make sure the keyboard works when directly plugged into the computer.
4. The mouse is not detected during PC boot up.
   Make sure the mouse works when directly plug into the computer, and make sure the mouse is a true USB mouse. A combo (USB+PS/2) mouse will work just as long as it is set for USB mouse with the correct adapter. If not, please try another pure USB mouse.
5. Avoiding moving the mouse or pressing the mouse buttons when switching the port.

6. Some of DVI cards may be unable to support Hot-swappable. For instance, if you like to connect DVI display with the USB KVM switch to prevent errors and shut down, please follow the steps below.
   - Before power on the DVI -PC, please firstly connect the DVI -PC to the USB KVM Switch (i.e. PC 1).
   - Push the button of selected DVI-PC (i.e. PC 1) on the front panel of USB KVM switch.
   - Connect other devices such like speaker, microphone to the USB KVM Switch
   - Power on the DVI-PC and wait until the DVI display is well appeared.
   - After all, may change to another channel (i.e. PC 2~PC4) if needed.

7. When the console PC is power-off, the USB KVM switch will detect the power-on PC approx. 20 seconds.